Wireless 2D Hand-held Terminal GTX-221-G Product Specification

CPU		32-bit RISC CPU
OS		µITRON
Memory	ROM	32MB (User area 12MB)
	RAM	128MB (User area 12MB)
Scanner	Decoded barcodes	NW-7, CODE39, JAN-13/8, UPC-A/E, Industrial 2of5 ITF, CODE93, CODE128(GS1-128), GS1 DataBar QR, Micro QR, PDF417, Micro PDF417, DataMatrix, GS1 Composite
	Marker	Red laser diode
	Laser class	IEC60825 Class2 compliant
	PCS	0.45 or larger (reflection factor of space and margin, 70% or more)
	Resolution	One-dimensional:0.127mm / Two-dimensional:0.25mm
Displayed LEDs	SCAN	Green/red/orange (user-specified, battery level display)
	ALARM	Orange
LCD display section	Display device	TFT, Color LCD, 262,144 colors
	Number of displayed pixels	QVGA(320×240)
	Display size	2.4 inches
	Backlight	White LED, 5-step luminosity adjustment (4-step adjustment and light-off)
Font	Font size	30 dots: 16 single-byte digits×9 lines 24 dots: 20 single-byte digits×12 lines 16 dots: 30 single-byte digits×18 lines
	Displayed characters	JIS level 1 and level 2 kanji, ANK, symbols, gaiji (external characters) (Double-sized width, double-sized height, and quadruple-size available)
Key input section	Number of keys	27keys(left and right trigger keys included)
	Backlight	Orange
Illuminance sensor		Available (LCD luminosity, key backlight ON/OFF control)
Battery cover open/close detection		Available (a warning screen appears when the battery cover is removed.)
Speaker		8-step volume adjustment (7-step adjustment and OFF) Sound when scanning and when errors occur (can be specified by the user).
Vibrator		Generate vibrations: when scanning and when errors occur (can be specified by the user).

Communication section	Bluetooth	Complied international standards	Bluetooth Ver2.0+EDR compliant		
		Transmission power Class *1	Class2		
	WLAN	Complied international standards	IEEE802.11b/g		
		Radio frequency	2.4GHz band		
		Number of channels	11ch		
		Security	Encryption standard	Authentication method	Encryption method
			WEP(40/128)	OPEN, SHARED	WEP(40/128)
			WPA-PSK (compatible)	PSK	TKIP
			WPA2-PSK (compatible)		CCMP(AES)
			WPA (compatible)	EAP-TLS	TKIP
			WPA2 (compatible)	EAP-PEAP-MSCHAPV2	CCMP(AES)
		Transmission distance	Indoor: maximum 75m, Outdoor: 200m		
	IrDA		IrDA Ver1.2 Physical Layer compliant Communication speed: maximum 115,200bps (SIR)		
External connection terminal	microSD		SD Memory Card Specification, Ver.1.1		
Dimensions			58 (W) ×171 (D) ×45 (H)mm Grip section 45 (W) ×29 (H)		
Weight			220g (battery pack included)		
Main unit charging function			Available (with temperature protection function)		
Power supply	Main battery		Li-ion rechargeable battery *2		
	Backup battery		Li-ion rechargeable battery (maintenance-free)		
Hours of continuous use *3			Approx. 15 hours (Typ.)		
Charging time			Approx. 2.5 hours		
Clock function			Year (4 digits), month, day, hour, minute, second/ with leap-year correction, timer functionality available		
Environment	Operating temperature / humidity		-5 ～45 / 20 to 80% RH (No condensation)		
	Storage temperature / humidity		-10 ～60 / 10 to 90% RH (No condensation)		
	Drop resistance *4		1.5m (for each of the six sides of the main unit, five drops on concrete tested) 2.5m (one drop on concrete tested)		
	Water and dust-proofing		IEC IP54		

*1 For stable communication, we recommend using the Handy Terminal within 2 m of the target, with no obstruction between the terminal and the Bluetooth USB adapter or the Bluetooth communication unit.
*2 When deeply charged repeatedly, the main battery may reach its end of life due to capacity reduction caused by deterioration.
*3 Hours of continuous use are an actual value under the following conditions:
One second of barcode reading per 20 seconds, one WLAN transmission/reception, LED ON, speaker ON, luminosity: level 2, vibrator OFF
*4 A value obtained by testing, not a guaranteed value.

* Product models tested: Toshiba, Panasonic, SanDisk
Regarding product models, contact our sales department.

◆ For purposes of product improvement, specifications and/or appearance may change without prior notice.
◆ For printing reasons, the colors may vary slightly between the pictures and the actual products.
◆ IBM (i iSeries, AS/400) is a registered trademark of the IBM company in the United States.
◆ Bluetooth is a registered trademark of Bluetooth SIG. Inc., U.S.A.
◆ In general, the various names are trademarks or registered trademarks of each company.

Enhanced optional parts

Battery pack
BP-004

Multi-Slot Charger
QC-007

Soft case
DC-013

Single Slot Charger with USB Communication
IU-004C

Belt holster
CB-001

Communication Utility
BluePorter-V
WLF-003

RoHS

Safety Cautions
To ensure correct and safe use of the product, please read the user manual before using the product.

Regarding after-sales service
For products you purchase from us, we provide free warranty for a period of one year from the date of shipment from our company.
For your peace of mind, we also provide our original maintenance contract, **"Free Support (Total Loss Excepted)"**.

welcat Over the Wave

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Jakarta 10230

For inquiries, contact our sales department at:

·Indonesia **TEL +62-21-2938-8420**

http://www.welcat.co.jp
*The latest information is on our homepage.

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Wireless 2D Hand-held Terminal

GTX-221-G

Advanced Reading Performance, Welcat Scan Technology

GTX-221-G *Wireless 2D Hand-held Terminal*

Advanced Reading Performance, Welcat Scan Technology

welcat
Over the Wave

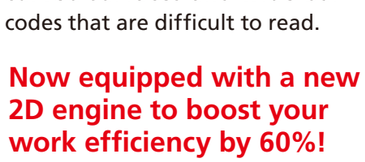
Wireless LAN Compatible | Bluetooth Compatible | Audio Play Function | Illuminance Sensor | Shock-Absorbent Materials

2D Barcode High-Speed Reading

Easily reads barcodes printed on curved surfaces and wide bar-codes that are difficult to read.

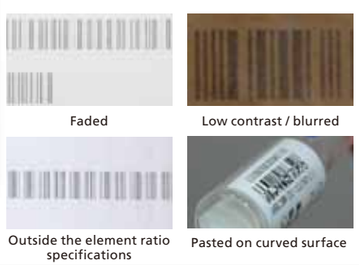
Now equipped with a new 2D engine to boost your work efficiency by 60%!

*Measured under Welcat test conditions.

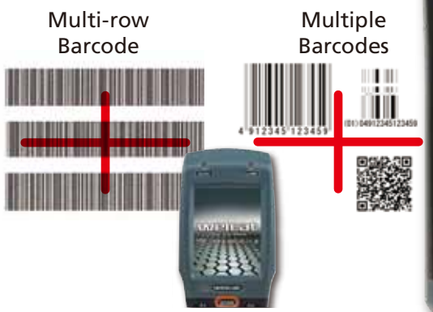


Enhanced Reading of Poorly Printed Barcodes

Tuned to easily read poorly-printed barcodes that are unreadable or difficult to read using conventional products. Reading performance has been greatly enhanced.



Upcoming Support For Multi-Row and Multiple Barcodes



Can read multi-row barcodes such as S-3 labels, D labels and apparel tags in one scan, as well as *kanban* where both barcodes and 2D codes are shown together.

Upcoming Support For Overseas Certification

Upcoming support planned for various countries sequentially from October 2012

In response to user requests for a device that uses the same system in overseas business locations as the one used domestically, Welcat will sequentially support certification in various countries overseas. Please contact our sales division for details.

Highly Durable Even In Severe Environments for Worry-Free Operations

Compliance with IP54 lets you use the device without worries, even on rainy days or in severe environments.

Body Structure with Excellent Shock-Absorption Performance

This well-protected device can stand up to drops of 2.5 m. When the DC-013 impact protection cover is used, the device is safe even from a 3 m drop.

Illuminance Sensor for Automatic Visibility Control

The LCD screen and key backlighting are automatically adjusted to match the workplace environment. This improves visibility.

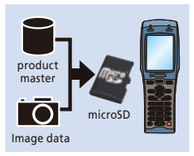
High-Definition Color LCD with Industry-Leading Visibility

Achieves excellent visibility even in bright sunlight or in a dimly-lighted warehouse environment.

*Screen image composite was digitally edited.

Equipped with Audio Play Function

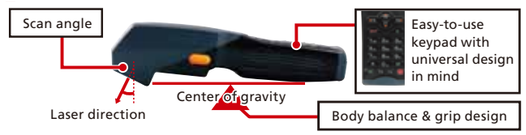
Use of the audio play function allows even beginners to handle simple navigational operations!
Customers can utilize the instructions, etc. in their native languages.



MicroSD Card Compatible

Convenient for storage of large-sized data such as product master database and product images/program backup/maintenance

Product Design Focusing on Ease of Use



- **Bluetooth Is Equipped as Standard**
- **Achieves High-Speed File Transmission**
- **Real-Time Information Sharing via Wireless LAN**
- **Wide Barcodes and Barcodes Printed on Curved Surfaces Are Easily Read**

Powerful Software — Contributes to Information Visualization and Operational Efficiency.

Development tool

WebGlider-X2 Editor Package

Operation tool

WebGlider Server Package

"WebGlider-X2" is the further evolution of "WebGlider-X". "WebGlider-X2" and "WebGlider Server Package" offer a total solution to support application development, network administration and operation management.These software packages allow you to easily build a business system using a wireless handy terminal.

"WebGlider-X2" Main Features

- Editor screen layout that's easy for application developers to use
- Client script functions are expanded from "WebGlider-X"
- Can use Editor to load projects created using "WebGlider-X", our previous product
- Easy-to-use development environment that makes full use of GUI

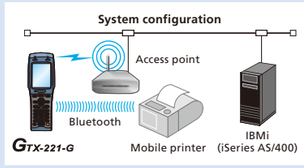
"WebGlider Server Package" Main Features

- Lightweight communication server supports communication of multiple wireless handy terminals without requiring a machine of high specifications*
- A wireless system can be built for internet/intranet environments

Handy 5250 — TN5250 Emulator

Handy 5250

- Connects directly to IBMi
- Can specify a workstation ID
- Can perform program development using RPG
- Flexible sign-on function
- Can change key assignment
- EUDC font registration function
- Program switch function
- Can connect to a label printer
- Interface with a wearable terminal



RealWMS — WMS package

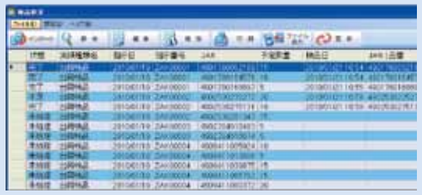
Real Logistics System

Realizes "Visualization" for Logistics

RealChecker — Inspection package

Low Cost and Fast Delivery-Superior Product Gives You Immediate Results

RealChecker



*Performance varies according to communication traffic. For matters such as the number of connected units and operation, consult with us in advance.